EGS CONFIDENCE TEST EXECUTION COVER SHEET

1.	Test ID and Title: EOC - ICC/IST Interface Confidence Test - ICT13					
2.	Test Conductor / Test Lead: Steven War					
3.	Planned Execution Date:					
4.	Actual Execution Date:					
5.	Planned Configuration:					
Hardw	rare: CERES IST, MOPITT IST, MISR IST, MODIS IST, EOC, and EBnet					
Softwa	are: IST Software and EOC					
6.	"As Run" Configuration:					
7.	Package items planned for execution:					
	(List test cases or steps planned for execution, e.g. ICT10.1, ICT10.2 steps 2-5, etc.)					
8.	Package items actually executed and deviations from currently published procedures.					
0						
9.	Results					
	a. Capabilities successfully demonstrated					
	b. Capabilities not successfully demonstrated					
	c. Requirements verified					
	d. Discrepancy Reports submitted					
10.	Lessons Learned					

EOC - ICC/IST Interface Confidence Test - ICT13

Background Information:

The IST is a subset of the Flight Operations Segment (FOS) software developed to enable the Instrument Operations Teams (IOTs) to conduct the following broad functions:

- Instrument activity planning and scheduling,
- Instrument commanding,
- Instrument telemetry monitoring and analysis,
- Update instrument's software,
- Receive image (micro-processor memory dump) of instrument's software.

Interfaces with ASTER are contained in ICT14 EOC-ASTER GDS Interface Confidence Test and ICT11 EDOS-ASTER GDS Interface Confidence Test and will not be tested within this confidence test.

Many of the functions and tools provided by the IST are also common to the EOS Operations Center (EOC). The general architecture of the IST is a set of tools interfacing to the users through a corresponding set of Graphic User Interfaces (GUIs). The GUIs provide the user interface to functions provided locally and functions provided in client-server mode by the FOS in the EOC.

Test Objectives:

ICT 13.1 - Infra-structure or Stand-alone Tool Testing

The objective of ICT 13.1 is to verify that the individual tools perform their assigned functions properly as stand-alone entities. IST stand alone tests should be able to build on developer I&T efforts and resources including automated execution scripts (X-runner scripts) and test data. The planning approach will be to represent each tool as a stand alone entity implemented by the corresponding GUI. Resulting products will be used in subsequent tests to test transitions between states. All available stand alone tools will be tested during this phase.

While the confidence tests will include all of these tools (other than those identified as COTS), specific tools will be tested as they become available (Release A or B). Regression testing will also be included during Release B timeframe for those tools which were originally included with Release A.

ICT 13.2 - IST Operational Scenario Tests

In ICT 13.2, the IST tools are used to support instrument operations test scenarios. These are tests of "end-to-end" functionality for the IST integrated with the EOC.

ICT 13.3 - Simultaneous Users and Management Mode

In ICT 13.3 potential conflicts between various IST users are tested. For example, simultaneous dedicated users will access the system, along with non-dedicated users to ensure the system correctly correlates the information presented to it. Additionally, a single user will log on with management authority, and a second user will attempt to log on in management mode. After the second user is denied management mode, the first user will log off and the system will be tested to ensure the user still logged on can then access those commands requiring management mode authority. Tests will also be run to ensure ASTER users do not affect the number of users allowed to be logged into the system from ISTs.

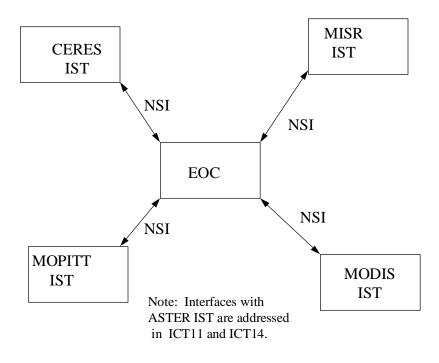
Requirements to be Verified:

```
EOC-2230#B, EOC-2240#B, EOC-2250#A, EOC-2250#B, EOC-2260#B, EOC-2270#A,
EOC-2270#B, EOC-2272#A, EOC-2272#B, EOC-2290#A, EOC-2290#B, EOC-2350#A,
EOC-2350#B, EOC-2480#A, EOC-2480#B, EOC-2540#A, EOC-2540#B, EOC-2620#A,
EOC-2620#B, EOC-3020#A, EOC-3020#B, EOC-3030#A, EOC-3030#B, EOC-3200#B,
EOC-3225#B, EOC-3226#B, EOC-4015#A, EOC-4015#B, EOC-4017#C, EOC-4166#B,
EOC-4168#B, EOC-4210#B, EOC-6020#A, EOC-6020#B, EOC-7015#A, EOC-7015#B,
EOC-7125#C, EOSD1500#B, ICC-0010#B, ICC-0020#B, ICC-0030#A, ICC-0030#B,
ICC-0055#A, ICC-0055#B, ICC-0070#B, ICC-1130#B, ICC-1150#C, ICC-2010#A,
ICC-2010#B, ICC-2015#B, ICC-2050#A, ICC-2050#B, ICC-2052#B, ICC-2060#B,
ICC-2110#B, ICC-2115#B, ICC-2140#A, ICC-2140#B, ICC-2150#A, ICC-2150#B,
ICC-2170#A, ICC-2190#A, ICC-2190#B, ICC-2210#A, ICC-2210#B, ICC-2220#A,
ICC-2220#B, ICC-2230#A, ICC-2230#B, ICC-2250#A, ICC-2250#B, ICC-2270#A,
ICC-2270#B, ICC-2280#A, ICC-2280#B, ICC-2290#A, ICC-2290#B, ICC-2300#A,
ICC-2300#B, ICC-2350#B, ICC-2370#B, ICC-2380#B, ICC-2390#A, ICC-2390#B,
ICC-2400#A, ICC-2400#B, ICC-3010#A, ICC-3010#B, ICC-3020#B, ICC-3040#A,
ICC-3040#B, ICC-3050#B, ICC-3060#B, ICC-3070#B, ICC-3071#B, ICC-3085#B,
ICC-3090#A, ICC-3090#B, ICC-3100#A, ICC-3100#B, ICC-3110#A, ICC-3110#B,
ICC-3210#A, ICC-3210#B, ICC-3230#B, ICC-3262#C, ICC-3270#A, ICC-3270#B,
ICC-3280#C, ICC-3300#C, ICC-3360#C, ICC-3370#B, ICC-3430#C, ICC-4020#A,
ICC-4020#B, ICC-4045#A, ICC-4045#B, ICC-4050#B, ICC-4060#B, ICC-4070#B,
ICC-4090#A, ICC-4090#B, ICC-4095#B, ICC-4100#A, ICC-4100#B, ICC-4110#B,
ICC-4120#B, ICC-4130#B, ICC-4150#A, ICC-4150#B, ICC-4160#C, ICC-4170#B,
ICC-4410#A, ICC-4410#B, ICC-4420#A, ICC-4420#B, ICC-4440#B, ICC-4450#A,
ICC-4450#B, ICC-4460#A, ICC-4460#B, ICC-4470#A, ICC-4470#B, ICC-4480#B,
ICC-4490#A, ICC-4490#B, ICC-4500#B, ICC-4510#B, ICC-4520#C, ICC-4540#B,
ICC-4545#B, ICC-4550#A, ICC-4550#B, ICC-4560#A, ICC-4560#B, ICC-4570#B,
ICC-4580#B, ICC-4590#B, ICC-4600#B, ICC-4710#A, ICC-4710#B, ICC-4720#B,
ICC-4730#B, ICC-4740#A, ICC-4740#B, ICC-4760#A, ICC-4760#B, ICC-4775#A,
```

ICC-4775#B, ICC-4780#A, ICC-4780#B, ICC-4790#A, ICC-4790#B, ICC-6005#A, ICC-6005#B, ICC-6010#B, ICC-6020#A, ICC-6020#B, ICC-6030#B, ICC-6040#A, ICC-6040#B, ICC-6060#A, ICC-6040#B, ICC-6070#A, ICC-6070#B, ICC-6090#B, ICC-6110#B, ICC-6130#B, ICC-6135#B, ICC-6140#B, ICC-6150#B, ICC-6510#A, ICC-6510#B, ICC-6520#A, ICC-6520#B, ICC-6525#A, ICC-6525#B, ICC-6540#A, ICC-6540#B, ICC-6580#A, ICC-6580#B, ICC-6600#A, ICC-7070#A, ICC-8010#B, ICC-8020#B, & ICC-8050#B.

See Appendix A for the text of the requirements.

Test Configuration (for AM-1):



Participants and Support Requirements:

Participants:

Maximum number of simultaneous AM-1 IST users is 15 (all missions).

Dedicated simultaneous IST connections

CERES 4 at Langley MODIS 2 at GSFC

MOPITT 1 at Un of Toronto, 1 at NCAR in Boulder

MISR 2 at JPL

Non-dedicated connections

CERES 4 at Langley MODIS 1 at GSFC

MISR 1 at JPL

DAAC support personnel at selected ISTs I&T TC
EOC M&O (FOT)
EDOS M&O
EBnet

Comm:

Voice: SCAMA or CCL

Data: EBnet - circuit from EOC - GSFC DAAC

Equipment & Software:

Hardware:

CERES IST MOPITT IST MISR IST MODIS IST EOC EBnet

Software:

IST Software EOC Software

Equipment & S/W: IST at IT facilities

EOC - Data Server, Workstation

EOC S/W

EOC Equipment

Test Tools:

Test Data:

Description / Characteristics	Source	File/Script & Location
Telemetry data	ETS	

References:

Hughes Information Technology Corporation, 343-TP-001-001, IST Capabilities Document for the ECS Project, September 1995.

Test Case Descriptions:

ICT 13.1

ICT 13.1.1 Planning & Scheduling Tools

The Activity Definer will be used to define activities for several different instruments. Once this is accomplished the Basic Activity Profile (BAP) will be used to incorporate a number of activities to be scheduled for the instrument's routine operation. The Scheduler will then be used to schedule individual activities as well as BAPs. Following this exercise the Plan Tool will be used to establish accesses, permissions or locks on plans maintained by Planning and Scheduling. Finally the Timeline Tool will be used to view the currently planned activities, orbit events and constraints and accesses on a given plan for a given time interval.

Requirements to be Verified: TBD

ICT 13.1.2 Command Management Tools

The RTS Load Builder will be used at the IST to create and edit Relative Time Sequence (RTS) load contents. Once that is accomplished the user will create and edit table load contents using the Table Load Builder. The Load Ingest Tool will be used to load contents files that were created at the IST to the FOS. The Load Generator Tool will be used to convert the load contents files to uplink format and enter them into the FOS Load Catalog. The Load Scheduler Tool will be used by the IOT to schedule the uplink times for the various instrument loads including microprocessor loads, table loads and is used to launch the Load Schedule Tool. RTS loads. The Load Manager Tool The Dump Comparison is requested via the ECL line in the control window and instructs the FOS software to compare the dump file to a load file and identify the differences. Finally, the Dump Report is used to export the file from the FOS to the SCF using the Data Mover tool. All CMS reports are accessible from the IST. The IOT user will use the IST to view ATC Load Reports, Table Load Reports, Microprocessor Load Reports, and an Integrated Report. The Monitor Telemetry Tools will allow an IST user to monitor instrument housekeeping and instrument engineering telemetry that is being received and processed in real time at the EOC. Full replay control will be given to the User through the Replay Controller Tool. Finally, the Quick Analysis Tool will be used to perform several analysis on the data.

Requirements to be Verified: TBD

ICT 13.1.3 Analysis Request Builder

From an IST, a user can initiate an analysis by bringing up the analysis request builder. They will then build a request by choosing instrument housekeeping telemetry, raw values or Engineering United Converted values and a sampling rate for each parameter specified. Additional parameters, along with the corresponding user algorithms will be selected, and a contiguous interval of time. The user will be provided a predefined report format. A user defined report will be created next using the corresponding report template. A Standing Order will be generated and scheduled using the Standing Order Manager. Finally the results of the Standing Order Manager will be viewed using the Standing Order Browser.

Requirements to be Verified: TBD

ICT 13.1.4 Commanding

The Procedure Builder Tool will be used by the IST user to create, edit, delete and print procedures. The Command Activity Controller will be used to execute any procedure that contains instrument commands. The Command Builder will be used to create commands. The user can use the Command Request tool to submit command requests to the Ops Controller. A command request consists of a set of instrument commands and instructions. The Command Request Status window will be used by the IOT for this purpose. During the execution of the current ground script the IST allows the IOT member to monitor the activities using the Command Monitoring Tool. The corresponding ground scripts are monitored using the Ground Script Display.

Requirements to be Verified: TBD

ICT 13.1.5 Subsystem

The IST enables the IST user to view event messages about the EOC, IST, spacecraft and instruments. Event messages are color coded on the event display to indicate the event severity and event type. The IST user will view event messages and perform Database Update & Browse functions.

Requirements to be Verified: TBD

ICT 13.1.6 Tools

The IST user will also exercise the following tools: the Help function, the Display Builder, the Quick Message Generator, the Data Mover to move files from the local workstation to the FOS, the Time Selector and other various Reports.

ICT 13.2

ICT 13.2.1 Instrument Planning and Scheduling - Define a BAP and independent activities and submit them to the EOC. Display the current instrument activity timeline. Modify the BAP and independent activities and resubmit them to the EOC for rescheduling. Conflicting schedules for various instruments will also be included to ensure accurate activity level constraint checking.

ICT 13.2.2 Instrument Commanding - Edit, validate, and generate Relative Time Sequence (RTS) and Table Loads and schedule them for uplink. Ensure both "in bounds" variables, and "out of bounds" variables to activities are handled correctly. Select existing loads from the load catalog and schedule them for uplink. Following load uplink, request memory dump and dump processing from the EOC and review results. Create and submit to the EOC ECS Command Language (ECL) procedures for real time instrument commanding. Execute these procedures, within the EOC, and verify command execution through telemetry monitoring.

ICT 13.2.3 Telemetry Monitoring and Analysis - Create alphanumeric and graphic telemetry displays and exercise them with single and multiple logical string connections, including a playback connection. Conduct a Quick Analysis on a telemetry stream from the IST. Submit Analysis Requests to the EOC for more extensive analysis and transfer results back to the IST. Analysis processing will also be performed at the IST. Issue standing order analysis requests to the EOC and verify regular execution. Various reports will also be generated.

ICT 13.2.4 Instrument Data Base Updates - conduct data base access and updates to instrument parameters from the IST. Upon approval and transfer to the permanent tables, verify proper updates in the permanent tables.

ICT 13.2.5 Flight Software Updates - conduct data base access and updates to flight software from the IST. Upon approval and transfer to the permanent tables, verify proper updates in the permanent tables.

ICT 13.3

ICT 13.3.1 Simultaneous users

At various ISTs a number of users will log on to ensure that the software allows the correct number of users to be accessing the system at the same time.

ICT 13.3.2 Dedicated user accessibility

The maximum number of non-dedicated users will be logged onto the system and then all the dedicated simultaneous users will log onto the system to ensure they are not locked out by non-dedicated users.

ICT 13.3.3 Management Mode tests

A single individual will log onto the system in management mode for a specific instrument. This individual will perform some management functions while a second user, also authorized for management mode on the same instrument will attempt to log onto the system in management mode. If unable to log into the system in management mode, this individual will log on as a normal user and will attempt to perform management functions from that log on. A third individual will log onto the system in management mode for a second instrument and attempt to perform management functions on the first instrument. The first user will no log off and the third individual will attempt to access the first instrument.

ICT 13.3.4 Joint test with EGS6 to ensure ASTER users (are not counted as part of the 15 users) don't effect 15 simultaneous IST users

Test Procedures:

Test Set-up:

Step	Station	Action	Expected Results	Comments
1.	IST	Logon to the Unix		
		workstation		
2.	IST	Activate the Motif		
		window manager		
3.	IST	Log onto the IST		

Test Execution:

ICT 13.1

Step	Station	Action	Expected Results	Comments		
ICT 1	ICT 13.1.1 Planning & Scheduling Tools					
1.	IST	From the tools dialog				
		box, select PAS				
2.	IST	From PAS invoke the	Activity Definer window			
		activity definer tool	is displayed			
3.	IST	Define a new activity	Prompt to enter the			
			name of the new activity			
4.	IST	Enter a new activity	Activity and resource			
		name (CERES Test1)	name is updated			
		and select AM1 CERES				
		for resource name,				
		select the OK button				
5.	IST	Access available CERES	Command window is			
		commands	displayed with available			
			commands			

6.	IST	Incorporate about 10 CERES ATC Commands into this	Commands are displayed on the screen	
		activity		
7.	IST	Save this new activity as	Activity is saved under	
		CERES Test1	given name	
8.	IST	Close this activity	Activity is closed	
9.	IST	Open CERES Test1	Activity is redisplayed	
10.	IST	Delete several commands from the activity	Activity is updated as desired	
11.	IST	Save activity under CERES Test2	Activity is saved under a new name	
12.	IST	Attempt to open CERES Test1 under the MOPITT resource	System defines a new activity under that resource name	
13.	IST	Incorporate several Ground commands under this activity and save as MOPITT Test1		
14.	IST	Open CERES Test1 and add several Ground commands to it		
15.	IST	Save as CERES Test3		
16.	IST	Open CERES Test2		
17.	IST	Specify mode transition as Standby and include parameter values		
18.	IST	Save as CERES Test4		
19.	IST	Intentionally place an inconsistency within the parameters of a command	Inconsistency should be identified by system	
20.	IST	Modify the parameter to eliminate the inconsistency	System accepts the change	
21.	IST	Specify mode transition as Safe		
22.	IST	Save activity as CERES Test5		
23.	IST	Specify mode transition as Biaxial Scan		
24.	IST	Save activity as CERES Test6		

0.5	TOP		T	
25.	IST	Create and save		
		activities for MISR,		
		MOPITT, & MODIS		
26.	IST	Close the Activity		
		Definer		
27.	IST	From the tools dialog		
		box, select PAS		
28.	IST	From PAS invoke the	BAP window is	
		BAP definer & OK	displayed	
29.	IST	Create a new BAP	Prompt to enter the	
			name of the new BAP	
30.	IST	Enter a new BAP name	BAP and resource name	
		(BAP1) and select AM1	is updated, BAP Definer	
		for resource name,	screen	
		select the OK button		
31.	IST	Access available		
		Activities and add them		
		to BAP1		
32.	IST	Save BAP1		
33.	IST	Add additional activities		
		to BAP1 and delete		
		several of the previously		
		included activities		
34.	IST	Save as BAP2		
35.	IST	Edit command		
33.	151	parameters within an		
		activity contained in		
		BAP2		
36.	IST	Save as BAP3		
37.	IST	Edit activity scheduling		
37.	101	information within		
		BAP3		
38.	IST	Save as BAP4		
		Close and exit BAP4		
39.	IST			
40.	IST	Deleted BAP2		
41.	IST	From the tools dialog		
42	ICT	box, select PAS	Cananal Calar Jan M.	
42.	IST	From PAS select the	General Scheduler Main	
		General Scheduler &	Screen is displayed	
12	IOT	OK		<u> </u>
43.	IST	Schedule an activity		
		within a plan using		
	1.05	impact scheduling		
44.	IST	Save the plan as PLAN1		

45.	IST	Schedule an individual		
45.	151	command within a plan		
		using non-impact		
		scheduling and an		
		absolute start time with		
		a stop as a duration		
46.	IST	Save the plan as PLAN2		
47.	IST	Schedule an activity		
47.	151			
		within a plan using non-		
		impact scheduling with oversubscription with		
		start associated with an		
		orbital event and stop as		
		an absolute time		
48.	IST	Open PLAN1		
49.	IST	Schedule		
49.	131	communication contact		
		with an absolute start		
		time and a stop time		
		associated with an		
		orbital event		
50.	IST	Modify the command		
30.	151	parameters		
51.	IST	Save the plan as PLAN3		
52.	IST	Schedule an uplink load		
53.	IST	Save the plan as PLAN4		
54.	IST	Delete PLAN3		
55.	IST	Open PLAN 2		
56.	IST	Unschedule an activity		
30.	151	within PLAN2		
57.	IST	Save as PLAN5		
58.	IST	From the tools dialog		
30.		box, select PAS		
59.	IST	From PAS select	General Scheduler Main	
		Timeline & OK	Screen is displayed	
60.	IST	Open PLAN5	Serven is displayed	
61.	IST	Change the resources		
01.		displayed by the timeline		
62.	IST	Remove resources from		
52.		the timeline		
63.	IST	Change the ordering of		
05.		the displayed resources		
64.	IST	Adjust the plan for new		
		FDF Data		

65.	IST	Save as PLAN6	
66.	IST	View Activities within	
		plan	
67.	IST	Filter Activities within	
		plan	
68.	IST	Reschedule Activities	
		within the plan	
69.	IST	Save as PLAN7	
ICT 1	13.1.2 Cor	nmand Management Tools	
70.	IST	Create RTS load using	
		the RTS Load Builder	
71.	IST	Save the RTS load as	
		RTSLOAD1	
72.	IST	Edit the RTS load using	
		the RTS Load Builder	
73.	IST	Save the RTS load as	
		RTSLOAD2	
74.	IST	Create a table load using	
		the Table Load Builder	
75.	IST	Save the table load as	
		TABLE1	
76.	IST	Edit the table load using	
		the Table Load Builder	
77.	IST	Save the table load as	
	1	TABLE2	
78.	IST	Use the Load Ingest	
		Tool to load	
70	TOTE	RTSLOAD2 to FOS	
79.	IST	Use the Load Ingest	
		Tool to load TABLE1	
90	ICT	to FOS	
80.	IST	Use the Load Ingest Tool to load an	
		instrument	
		microprocessor load to FOS	
81.	IST	Use the Load Generator	
01.	151	Tool to convert	
		RTSLOAD2 to uplink	
		format	
82.	IST	Use the Load Generator	
52.		Tool to convert	
		TABLE1 to uplink format	

83.	IST	Use the Load Generator Tool to convert instr. Microprocessor load to uplink format			
84.	IST	Use the Load Schedule Tool to schedule the uplink times for RTSLOAD2, TABLE1 & Inst. Micro. Load			
85.	IST	Launch the Load Schedule Tool using the Load Manager Tool			
86.	IST	Using Dump Comparison, compare the dump file and the load file, identify any differences			
87.	IST	Using the Data Mover tool, export files from the FOS to the SCF			
88.	IST	View the ATC Load Report			
89.	IST	View the Table Load Report			
90.	IST	View the Microprocessor Load Report			
91.	IST	View the Integrated Report			
92.	IST	Using the Monitor Telemetry Tool, monitor the instrument housekeeping telemetry			
93.	IST	Using the Monitor Telemetry Tool, monitor the instrument engineering telemetry			
94.	IST	Using the Replay Controller Tool, replay as appropriate			
95.	IST	Using the Quick Analysis Tool, analyze the data received			
ICT 1	ICT 13.1.3 Analysis Request Builder				

96.	IST	Invoke the Analysis		
		Request Builder		
97.	IST	Select Instrument H/K		
		telemetry, associated		
		times, sampling and		
		statistics rates		
98.	IST	Accept the predefined		
		report format		
99.	IST	Save request as		
		REQUEST1		
100.	IST	Select Instrument H/K		
		raw values, associated		
		times, sampling and		
		statistics rates		
101.	IST	Accept the predefined		
		report format		
102.	IST	Save request as		
		REQUEST2		
103.	IST	Select Instrument H/K		
		Engineering Unit		
		Converted values		
		associated times,		
		sampling and statistics		
		rates		
104.	IST	Create a user defined		
		report format		
105.	IST	Save request as		
		REQUEST3		
106.	IST	Generate a Standing		
		Order based on time		
107.	IST	Generate a Standing		
		Order based on orbit		
108.	IST	Schedule both Standing		
		Orders using the		
		Standing Order Manager		
109.	IST	Using the Standing		
		Order Browser view the		
		two Standing Orders		
ICT 1	3.1.4 Con	nmanding		1
110.	IST	Select the New option	An ECL template	
		under the File menu	procedure is displayed	
	1	1	r	I

111.	IST	Place the cursor in the procedure text window and enter ECL directives to place CERES in safe mode	The text appears as typed
112.	IST	Select the appropriate procedure type from the option menu	
113.	IST	Save as PROCEDURE1	
114.	IST	Add additional ECL directives to the procedure	
115.	IST	Save as PROCEDURE2	
116.	IST	Select the New option under the File menu	An ECL template procedure is displayed
117.	IST	Place the cursor in the procedure text window and enter ECL directives to place CERES in calibration mode	The text appears as typed
118.	IST	Select the appropriate procedure type from the option menu	
119.	IST	Save as PROCEDURE3	
120.	IST	Select the New option under the File menu	An ECL template procedure is displayed
121.	IST	Place the cursor in the procedure text window and enter ECL directives to place MODIS in safe mode	The text appears as typed
122.	IST	Select the appropriate procedure type from the option menu	
123.	IST	Save as PROCEDURE4	
124.	IST	Select the Open option under file menu	A file selection dialog is displayed
125.	IST	Select the User button	The contents of the user defined procedure directory are displayed
126.	IST	Navigate through the choices and select PROCDURE1 and select OK	PROCEDURE1 is displayed for modification

127.	IST	Update the ECL directives in PROCEDURE1	ECL directives are modified appropriately
128.	IST	Save as PROCEDURE5	
129.	IST	Select the Open option under file menu	A file selection dialog is displayed
130.	IST	Select the System button	All procedures are displayed for the user's selection
131.	IST	Navigate through the choices and select PROCDURE3 and select OK	PROCEDURE3 is displayed for modification
132.	IST	Update the ECL directives in PROCEDURE3	ECL directives are modified appropriately
133.	IST	Save as PROCEDURE3	
134.	IST	Print PROCEDURE3	File is printed
135.	IST	Select the insert option under the File menu	A file selection dialog is displayed
136.	IST	Navigate through the choices and select PROCDURE1 and select OK	Selected procedure is inserted within PROCEDURE3
137.	IST	Enter the Start directive (Start <procedure name>) in the ECL text field</procedure 	
138.	IST	Obtain command authority with the TAKE COMMAND directive	User has authority to execute commands
139.	IST	Select Command Control from the Command Control Window	Command Control Window becomes activated
140.	IST	Enter the Start directive (Start <pre>cprocedure name>)</pre>	
141.	IST	Using Command Builder, create commands for MOPITT	

1.40	ICT	Haina Camana I		
142.	IST	Using Command		
		Builder, create		
		commands for MISR		
143.	IST	Using the Command	The Command request	
		Request tool, submit	Status window is used	
		command requests for	for this procedure	
		MOPITT and MISR to		
		the Ops Controller		
144.	IST	Using the Command		
		Monitoring tool monitor		
		activities throughout this		
		operation		
145.	IST	Using the Ground Script		
		Display, monitor the		
		corresponding ground		
		scripts during this		
		operation		
ICT 1	3.1.5 Subs	ystem		
146.	IST	View event messages		
		pertaining to the EOC		
147.	IST	Using the Database		
		Browse function browse		
		values in the database		
		related to the event		
148.	IST	View event messages		
		pertaining to the IST		
149.	IST	Using the Database		
		Update function change		
		values in the database		
		related to the event		
150.	IST	View event messages		
		pertaining to the		
		spacecraft		
151.	IST	View event messages		
		pertaining to the CERES		
152.	IST	Using the Database		
		Browse function browse		
		values in the database &		
		update them as		
		necessary		
153.	IST	View event messages		
		pertaining to the		
		MODIS		
ICT 13.1.6 Tools				

154.	IST	Access and view the context sensitive help for several areas of the screen
155.	IST	Access and test the Display Builder
156.	IST	Access and test the Quick Message Generator
157.	IST	Access the Data Mover and move files between FOS and your workstation
158.	IST	Access and use the Time Selector

ICT 13.2

10113						
Step	Station	Action	Expected Results	Comments		
ICT 13.2.1 Instrument Planning and Scheduling						
1.	IST	From the tools dialog				
		box, select PAS				
2.	IST	From PAS invoke the	BAP window is			
		BAP definer & OK	displayed			
3.	IST	Create a new BAP	Prompt to enter the			
			name of the new BAP			
4.	IST	Enter a new BAP name	BAP and resource name			
		(BAP5) and select AM1	is updated, BAP Definer			
		for resource name,	screen			
		select the OK button				
5.	IST	Select several				
		independent activities				
6.	IST	Submit BAP and				
		independent activities to				
		the EOC				
7.	IST	Display the current				
		activities timeline				
8.	IST	Modify BAP5				
9.	IST	Select several				
		independent activities				
10.	IST	Submit modified BAP				
		and independent				
		activities to the EOC				
10.	IST	Submit modified BAP and independent				

11.	IST	Display the assument	
11.	151	Display the current	
10	TOTE	activities timeline	
12.	IST	Modify independent	
10	TOTE	activities	
13.	IST	Submit modified	
		independent activities	
		and BAP5 to the EOC	
14.	IST	Display the current	
		activities timeline	
15.	IST	Schedule activities with	
		conflicting schedules	
		and submit to EOC	
ICT 1	3.2.2 Instr	ument Commanding	
16.	IST	Open RTSLOAD1	
17.	IST	Modify RTSLOAD1's	
		parameters to add "out	
		of bounds" variable to	
		activity	
18.	IST	Schedule RTSLOAD1	
		for uplink	
19.	IST	Open RTSLOAD2	
20.	IST	Ensure RTSLOAD2's	
		parameters are "in	
		bounds"	
21.	IST	Schedule RTSLOAD2	
		for uplink	
22.	IST	Open TABLE1	
23.	IST	Schedule TABLE1 for	
		uplink	
24.	IST	Open TABLE2	
25.	IST	Schedule TABLE2 for	
		uplink	
26.	IST	Request appropriate	
-3.		memory dumps from	
		EOC for RTSLOAD1,	
		RTSLOAD2, TABLE1,	
		& TABLE2	
27.	IST	Create EOC ECL	
		procedures for Real	
		Time Instrument	
		Commanding	
28.	IST	Submit Real Time ECL	
20.	101	procedures	
		procedures	

29.	IST	Execute Real Time ECL		
2).	151	procedures		
30.	IST	Verify command		
30.	151	execution through		
		telemetry monitoring		
ICT 1	1 3 2 3 Tele	metry Monitoring and Analy	7010	
31.	IST	Create alphanumeric	313	
31.	151	telemetry displays		
32.	IST	Create graphic telemetry		
32.	151	displays		
33.	IST	Create combined		
33.	151	alphanumeric and		
		graphic telemetry		
		displays		
34.	IST	Create a single logical		
		string connection for		
		telemetry display		
35.	IST	Create multiple logical		
	1.0 1	string connections for		
		telemetry display		
36.	IST	Create logical string		
		connection which		
		includes playback		
37.	IST	Conduct a Quick		
		Analysis on a telemetry		
		stream		
38.	IST	Submit Analysis Request		
		to EOC for an extensive		
		analysis		
39.	IST	Transfer results of		
		analysis at EOC to IST		
40.	IST	Perform analysis on		
		telemetry data on IST		
41.	IST	Issue Standing Order		
		analysis requests from		
		IST to EOC		
42.	IST	Verify regular execution		
		of Standing Order		
43.	IST	Generate additional		
		reports		
	1	rument Data Base Updates		
44.	IST	Access database		
		containing MOPITT		
		information		

45.	IST	Update MOPITT	
1.5	TOP	database information	
46.	IST	Obtain required	
		approvals to update data base information for	
		MOPITT	
47.	IST	Transfer updated	
47.	151	information to MOPITT	
		database	
48.	IST	Verify updated	
		MOPITT information is	
		in MOPITT database	
49.	IST	Access database	
		containing MODIS	
		information	
50.	IST	Update MODIS	
		database information	
51.	IST	Obtain required	
		approvals to update data	
		base information for	
	TOP	MODIS	
52.	IST	Transfer updated	
		information to MODIS database	
53.	IST	Verify updated MODIS	
33.	151	information is in	
		MODIS database	
54.	IST	Access database	
"		containing MISR	
		information	
55.	IST	Update MISR database	
		information	
56.	IST	Obtain required	
		approvals to update data	
		base information for	
		MISR	
57.	IST	Transfer updated	
		information to MISR	
	IOT	database	
58.	IST	Verify updated MISR	
		information is in MISR database	
		uatabase	

59.	IST	Access database
		containing CERES
		information
60.	IST	Update CERES
00.	151	database information
61.	IST	Obtain required
01.		approvals to update data
		base information for
		CERES
62.	IST	Transfer updated
02.		information to CERES
		database
63.	IST	Verify updated CERES
		information is in CERES
		database
ICT 1	3.2.5 Fligh	ht Software Updates
64.	IST	Access database
		containing flight
		software information
65.	IST	Update flight software
		information
66.	IST	Obtain required
		approvals to update
		flight software
		information for CERES
67.	IST	Transfer updated
		information to flight
		software database
68.	IST	Verify updated flight
		software information is
		in CERES database

ICT 13.3

Step	Station	Action	Expected Results	Comments			
ICT 1	ICT 13.3.1 Simultaneous users						
69.	IST	Have four CERES users					
		log on to their dedicated					
		workstations at Langley					
70.	IST	Have two MODIS users					
		log on to their dedicated					
		workstations at GSFC					

users log on to their dedicated workstations at Un of Toronto and at NCAR in Boulder 72. IST Have two MISR users log on to their dedicated workstations at JPL 73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-dedicated workstations	
at Un of Toronto and at NCAR in Boulder 72. IST Have two MISR users log on to their dedicated workstations at JPL 73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
NCAR in Boulder 72. IST Have two MISR users log on to their dedicated workstations at JPL 73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
72. IST Have two MISR users log on to their dedicated workstations at JPL 73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
log on to their dedicated workstations at JPL 73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
workstations at JPL 73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
73. IST Have four CERES users log on to their non-dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
log on to their non- dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
dedicated workstations at Langley 74. IST Have one MISR user log on to their non-	
74. IST Have one MISR user log on to their non-	
74. IST Have one MISR user log on to their non-	
log on to their non-	
dedicated workstations	
at JPL	
75. IST Have one MODIS user System should not allow	
attempt to log on to 16th person to log onto	
their non- dedicated their IST	
workstations at GSFC	
76. IST Have one of the two	
MODIS users logged	
on to their dedicated	
workstations at GSFC,	
log off	
77. IST Have one MODIS user System should allow	
log on to their non- 15th person to log onto	
dedicated workstations their IST	
at GSFC	
ICT 13.3.2 Ensure dedicated simultaneous users are not locked out by non-dedication users	ated
78. IST Have the second System should not allow	
MODIS users attempt to 16th person to log onto	
log on to their their IST	
dedicated workstations	
at GSFC	
79. IST Have one of the four	
CERES users log on to	
their dedicated	
workstations at Langley,	
log off	
80. IST Have the second System should allow	
MODIS user log on to 15th person to log onto	
their dedicated their IST	
workstations at GSFC	

0.1	TOTE	II d C d CEDEC	0 1 11 11	
81.	IST	Have the fourth CERES	System should not allow	
		user attempt to log on	16th person to log onto	
		to their dedicated	their IST	
	2227	workstations at Langley	1 700	
		=	re only one IST user for an i	instrument is in
	gement mo	1		
82.	IST	Have one of the three		
		CERES users log off		
		their dedicated		
0.0	TOP	workstations at Langley		
83.	IST	Have one of the two		
		CERES users not		
		logged on, log on to		
		their dedicated		
		workstations at Langley		
0.4	IOT	in management mode	01 11 41 11 1	
84.	IST	Have the remaining	Should not be allowed	
		CERES user attempt to	to log on because this	
		log on to their dedicated	would be the 16th	
		workstations at Langley	person and someone is	
		in management mode	already logged in under	
			CERES Management mode	
85.	IST	Have one of the two	mode	
05.		MODIS users logged		
		on to their dedicated		
		workstations at GSFC,		
		log off		
86.	IST	Have the remaining	Should not be allowed	
		CERES user attempt to	to log on because	
		log on to their dedicated	someone is already	
		workstations at Langley	logged in under CERES	
		in management mode	Management mode	
87.	IST	Have the remaining	Should be allowed to	
		CERES user log on to	log on.	
		their dedicated		
		workstations at Langley		
88.	IST	Have the CERES user	Does system give the	
		logged on in	CERES user who tried	
		management mode log	to log on in management	
		off	mode any indication that	
			management mode is	
			now available?	
ICT 1	3 3 4 Ioint	test with EGS6 to ensure	ASTER users (are not count	ted as part of

ICT 13.3.4 Joint test with EGS6 to ensure ASTER users (are not counted as part of the 15 users) don't effect 15 simultaneous IST users

89.	IST	Have four CERES users		
09.	151	log on to their dedicated		
90.	IST	workstations at Langley Have two MODIS users		
90.	151			
		log on to their dedicated		
01	ICT	workstations at GSFC		
91.	IST	Have two MOPITT		
		users log on to their		
		dedicated workstations		
		at Un of Toronto and at		
02	TOP	NCAR in Boulder		
92.	IST	Have two MISR users		
		log on to their dedicated		
	TOP	workstations at JPL		
93.	IST	Have four CERES users		
		log on to their non-		
		dedicated workstations		
	l	at Langley		
94.	IST	Have three ASTER		
		users log on to their		
		workstations at ASTER-		
		GDS		
95.	IST	Have one MISR user	System should allow the	
		log on to their non-	MISR user to log on	
		dedicated workstations		
		at JPL		
96.	IST	Have one MISR user		
		log on to their non-		
		dedicated workstations		
		at JPL log off		
97.	IST	Have one of the two		
		MODIS users logged		
		on to their dedicated		
		workstations at GSFC,		
		log off		
98.	IST	Have the second	System should allow	
		MODIS users attempt to	15th person to log onto	
		log on to their	their IST (ASTER IST	
		dedicated workstations	users are not held	
		at GSFC	against the count)	

<u>Test Termination:</u>

Step	Station	Action	Expected Results	Comments
1.	IST	Collect all necessary		
		screen snaps, dumps,		
		etc. needed for post-test		
		analysis and verification		
2.	IST	Reconfigure the system		
		to pre-test configuration		
3.	IST	Log off of the IST		
		workstation		

Appendix A

EOC-2230#B If conflicts cannot be resolved in EOS planning and scheduling, the EOC shall make a choice between competing activities based on negotiations with and between the ICCs or or on a decision by the Project Scientist or his designee. EOC-2240#B The EOC shall reintroduce applicable requested activities in its planning and scheduling function when the activity did not occur due to a deviation from the schedule. EOC-2250#A The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2250#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instrument that have resource deviations lists, the EOC shall build instrument resource profiles. EOC-2390#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. The EOC shall accept from	Dorograph ID	Text
choice between competing activities based on negotiations with and between the ICCs or on a decision by the Project Scientist or his designee. EOC-2240#B The EOC shall reintroduce applicable requested activities in its planning and scheduling function when the activity did not occur due to a deviation from the schedule. EOC-2250#A The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. The EOC shall provide the preliminary resource schedule to the ICCs upon generation. The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile e		
or on a decision by the Project Scientist or his designee. EOC-2240#B The EOC shall reintroduce applicable requested activities in its planning and scheduling function when the activity did not occur due to a deviation from the schedule. EOC-2250#A The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2250#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#B The EOC shall notify the	EUC-2230#B	
EOC-2270#B The EOC shall reintroduce applicable requested activities in its planning and scheduling function when the activity did not occur due to a deviation from the schedule. EOC-2250#A The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2250#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICS instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule to the ICCs upon generation. The EOC shall accept from each ICC an instrument activity list or an inst		
scheduling function when the activity did not occur due to a deviation from the schedule. EOC-2250#A The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2250#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B Whenever the ICS instrument resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICS instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot b	EOC 2240#B	
schedule. The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2250#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2270#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#B The EOC shall notify the ICC of any instrument acti	EOC-2240#B	
EOC-2250#A The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any		·
and incremental interactive-user modes. The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#A Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot be integ	EOC 2250#A	
EOC-2250#B The EOC shall be capable of performing its planning and scheduling function in batch and incremental interactive-user modes. EOC-2260#B The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a deta	EUC-2250#A	
and incremental interactive-user modes. The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC 2250#D	
EOC-2270#A The EOC shall provide "what-if" capabilities for planning and scheduling analysis, and provide them to authorized users, including the ICCs. The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2270#B The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCis instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EUC-2250#B	
provide them to authorized users, including the ICCs. EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2270#B The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCIs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC 2260#D	
EOC-2270#A The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EUC-2200#B	
list (when a resource profile exists for the instrument) from each ICC. EOC-2270#B The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles. EOC-2270#B For the instruments that have resource deviations lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCIs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC 2270#A	•
EOC-2270#B The EOC shall accept an instrument resource profile or instrument resource deviation list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCIs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EUC-22/0#A	1
list (when a resource profile exists for the instrument) from each ICC. EOC-2272#A For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC 2270#P	
For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	LOC-2270#B	
resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2272#B For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	FOC 2272#A	
resource profiles. For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC-22/2#A	
For the instruments that have resource deviations lists, the EOC shall build instrument resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCIs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.		
resource profiles by combining the resource deviation lists with the respective baseline resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC 2272#B	
resource profiles. EOC-2290#A Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCIs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.	EOC-2212#B	
Whenever the ICs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCÍs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		
resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCÍs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	EOC-2290#A	•
a minimum, an identification of the conflicting activities and the source of conflict. EOC-2290#B Whenever the ICCs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	200 2290111	
Whenever the ICCÍs instrument resource profile cannot be integrated into a preliminary resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		
resource schedule, the EOC shall provide the ICC with a notification that includes, at a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	EOC-2290#B	
a minimum, an identification of the conflicting activities and the source of conflict. EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule.		
EOC-2350#A The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		<u> </u>
EOC-2350#B The EOC shall provide the preliminary resource schedule to the ICCs upon generation. EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	EOC-2350#A	
EOC-2480#A The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	EOC-2350#B	
activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		
updates thereto. EOC-2480#B The EOC shall accept from each ICC an instrument activity list or an instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		· · · · · · · · · · · · · · · · · · ·
activity deviation list (when an activity profile exists for the instrument) and any updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		· · · · · · · · · · · · · · · · · · ·
updates thereto. EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	EOC-2480#B	The EOC shall accept from each ICC an instrument activity list or an instrument
EOC-2540#A The EOC shall notify the ICC of any instrument activities that cannot be integrated into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		activity deviation list (when an activity profile exists for the instrument) and any
into a detailed activity schedule. EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated		updates thereto.
EOC-2540#B The EOC shall notify the ICC of any instrument activities that cannot be integrated	EOC-2540#A	The EOC shall notify the ICC of any instrument activities that cannot be integrated
, , , , , , , , , , , , , , , , , , ,		into a detailed activity schedule.
into a detailed activity schedule	EOC-2540#B	The EOC shall notify the ICC of any instrument activities that cannot be integrated
into a detailed activity schedule.		into a detailed activity schedule.
EOC-2620#A The EOC shall provide the ICC with the detailed activity schedule and any updates	EOC-2620#A	The EOC shall provide the ICC with the detailed activity schedule and any updates
upon generation.		upon generation.

EOC-2620#B	The EOC shall provide the ICC with the detailed activity schedule and any updates
EOC-3020#A	upon generation. The EOC shall accept from the ICC instrument loads, SCC-stored instrument commands, and SCC-stored instrument tables as well as the associated information
	that includes at a minimum the following:
	a. Instrument identifier
	b. Schedule identifier, if applicable
	c. Identification of commands that could impact spacecraft or instrument safety (i.e., critical commands)
EOC-3020#B	The EOC shall accept from the ICC instrument loads, SCC-stored instrument
	commands, and SCC-stored instrument tables as well as the associated information
	that includes at a minimum the following:
	a. Instrument identifier
	b. Schedule identifier, if applicable
	c. Identification of commands that could impact spacecraft or instrument safety (i.e.,
	critical commands)
EOC-3030#A	The EOC shall authenticate the originator of command information from the ICCs.
EOC-3030#B	The EOC shall authenticate the originator of command information from the ICCs.
EOC-3200#B	The EOC shall accept from the ICC instrument preplanned command groups for
ļ	issuance by the EOC in the event of an anomaly that requires an immediate response or
707 222	in the event that the ICC is unable to command the instrument.
EOC-3225#B	In support of a TOO observation or late change, the EOC shall prepare the
ļ	corresponding integrated load and/or real-time instrument command set within 15
ļ	minutes of receipt of the SCC-stored instrument commands, SCC-stored instrument
	tables, or instrument load from the ICC, if the observation does not impact previously scheduled activities.
EOC-3226#B	In support of a TOO observation or late change, the EOC shall prepare the
EOC-3220#B	corresponding integrated load and/or real-time instrument command set within 1 hour
	of receipt of the SCC-stored instrument commands, SCC-stored instrument tables, or instrument load from the ICC, if the observation impacts previously scheduled activities.
EOC-4015#A	The EOC shall provide the capability to build real-time commands based on operator
LOC 4013#11	input and validate the generated commands.
EOC-4015#B	The EOC shall provide the capability to build real-time commands based on operator
200 10102	input and validate the generated commands.
EOC-4017#C	The EOC shall receive from the ICC instrument real-time command groups destined for
	the EOS spacecraft and instruments.
EOC-4166#B	The EOC shall provide the ICC with instrument uplink status, which includes at a
ļ	minimum the following:
	a. Receipt at the EOC
ļ	b. Validation status
<u> </u>	c. Receipt at the spacecraft and instrument
EOC-4168#B	The EOC shall provide the ICCs with instrument command notification messages,
	when emergency/contingency instrument commands are issued. \\1333, 946 \\
EOC-4210#B	The EOC shall process and output a single real-time emergency command within 500

milliseconds of receiving the request from an ICC. COC-6020#A The EOC shall accept instrument status data from each ICC. COC-6020#B The EOC shall accept instrument status data from each ICC. COC-7015#A The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. COC-7015#B The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. COC-7125#C The EOC shall provide spacecraft status data to an ICC. COSD1500#B ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
CC-0010#B The EOC shall accept instrument status data from each ICC. The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. COC-7015#B The EOC shall provide spacecraft status data to an ICC. COSD1500#B ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
CC-0010#B The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. The EOC shall provide spacecraft status data to an ICC. EOSD1500#B ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
any updates thereto. COC-7015#B The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. COC-7125#C The EOC shall provide spacecraft status data to an ICC. ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
The EOC shall receive from the ICCs instrument-specific portion of the PDB and/or any updates thereto. COC-7125#C The EOC shall provide spacecraft status data to an ICC. EOSD1500#B ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
any updates thereto. COC-7125#C The EOC shall provide spacecraft status data to an ICC. EOSD1500#B ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
CC-0020#B The EOC shall provide spacecraft status data to an ICC. EOSD1500#B ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
ECS shall interface with the EOS spacecraft and with the EOS instruments in order to perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
perform mission operations, including planning, scheduling, commanding, and monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
monitoring functions. CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
CC-0010#B The GSFC ICC shall be responsible for planning, scheduling, commanding, and monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
monitoring the instruments allocated to GSFC in Table D-1, Instrument Manifest. CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
CC-0020#B The ICC shall be capable of interfacing with one or more local and/or remote ISTs for the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
the instrument supported by the ICC. CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
CC-0030#A The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a minimum, the following: a. Conflicts found in planning and scheduling.
minimum, the following: a. Conflicts found in planning and scheduling.
a. Conflicts found in planning and scheduling.
CC-0030#B The ICC shall have the capability to notify the TL or instrument PI at the IST of, at a
minimum, the following:
a. Conflicts found in planning and scheduling
b. Arrival of instrument engineering data
c. Instrument anomalies found during instrument monitoring
CC-0055#A The ICC shall interface with EDOS for coordinating EDOS-provided services (e.g.,
data delivery service messages, status).
CC-0055#B The ICC shall interface with EDOS for coordinating EDOS-provided services (e.g.,
data delivery service messages, status).
CC-0070#B The ICC shall be capable of accommodating instrument team-provided software and/or
hardware to perform functions such as:
a. Planning
b. Scheduling
c. Analysis
d. Onboard microprocessor management
CC-1130#B In support of a TOO observation, the ICC shall be able to evaluate the corresponding
request within 30 minutes.
CC-1150#C The ICC shall be capable of using predicted orbit data and related information for the
U.S. spacecraft, to determine the times during which specified targets will be within
view of the specified instruments.
CC-2010#A The ICC shall have the capability to access the EOC planning and scheduling
information.
CC-2010#B The ICC shall have the capability to access the EOC planning and scheduling
information.
CC-2015#B The ICC shall have the capability to access and execute EOC "what-if" functions for
planning and scheduling analysis.
CC-2050#A The ICC shall identify and resolve instrument planning and scheduling conflicts of its

	1
	instrument based on, at a minimum, the following:
	a. Resource and time constraints
	b. In situ observation dependency
	c. Coordinated observation dependency among instruments
	d. Priorities set by the LTSP and LTIP
ICC-2050#B	The ICC shall identify and resolve instrument planning and scheduling conflicts of its
	instrument based on, at a minimum, the following:
	a. Resource and time constraints
	b. In situ observation dependency
	c. Coordinated observation dependency among instruments
	d. Priorities set by the LTSP and LTIP
ICC-2052#B	The ICC shall generate the instrument baseline activity profiles, based upon the LTIPs
100 2032113	for the applicable instrument.
ICC-2060#B	The ICC shall reintroduce applicable requested activities in its planning and
2000112	scheduling function when the activity did not occur due to a deviation from the
	schedule.
ICC-2110#B	The ICC shall be capable of converting PI/TL provided instrument deviation requests
1CC-2110#D	into scheduling directives suitable for inclusion in its instrument resource profile.
ICC-2115#B	
ICC-2113#B	The ICC shall have the capability to plan and schedule instrument maintenance
TOO 21.40//A	activities.
ICC-2140#A	At least once each week, the ICC shall build an instrument resource profile or an
	instrument resource deviation list (when a baseline resource profile exists for the
	instrument), which includes a description of instrument operations currently planned
	for the target week.
ICC-2140#B	At least once each week, the ICC shall build an instrument resource profile or an
	instrument resource deviation list (when a baseline resource profile exists for the
	instrument), which includes a description of instrument operations currently planned
	for the target week.
ICC-2150#A	The ICC shall accept from the EOC a notification of rejection of its instrument
	activities proposed in the instrument resource profile or instrument resource
	deviation list.
ICC-2150#B	The ICC shall accept from the EOC a notification of rejection of its instrument
	activities proposed in the instrument resource profile or instrument resource
	deviation list.
ICC-2170#B	The GSFC ICC architecture shall be capable of growing to support additional
	instruments without major redesign.
ICC-2190#A	The ICC shall build or update its instrument resource profile, or when a resource
200 2170111	profile exists, its instrument resource deviation list, based, at a minimum, on the
	following:
	a. PI/TL provided instrument deviation requests
	b. LTSP and LTIP
	c. Current resource availability
ICC 2100#P	d. Current predicted orbit data and related information The ICC shall by ild on undeta, its instrument resource profile, or when a recourse
ICC-2190#B	The ICC shall build or update its instrument resource profile, or when a resource
İ	profile exists, its instrument resource deviation list, based, at a minimum, on the

	following:
	a. PI/TL provided instrument deviation requests
	b. LTSP and LTIP
	c. Current resource availability
	d. Current predicted orbit data and related information
	e. Rejection notification from the EOC of activities that can not be accommodated in
	the preliminary resource
	schedule
	f. Existing preliminary resource schedule
ICC-2210#A	The ICC shall ensure that its instrument resource profile contains no internal conflicts.
ICC-2210#B	The ICC shall ensure that its instrument resource profile contains no internal conflicts.
ICC-2220#A	The ICC shall be able to generate the instrument resource profile in both machine
	usable and human readable forms.
ICC-2220#B	The ICC shall be able to generate the instrument resource profile in both machine
	usable and human readable forms.
ICC-2230#A	When generated, the ICC shall provide the EOC with its instrument resource profile
	or, when a resource profile exists, an instrument resource deviation list.
ICC-2230#B	When generated, the ICC shall provide the EOC with its instrument resource profile
	or, when a resource profile exists, an instrument resource deviation list.
ICC-2250#A	The ICC shall accept the preliminary resource schedule from the EOC.
ICC-2250#B	The ICC shall accept the preliminary resource schedule from the EOC.
ICC-2270#A	For each day the ICC shall be capable of generating or updating, an
100 2270111	instrument activity list or an instrument activity deviation list (when an activity
	profile exists for the instrument) nominally covering the next 7 days.
ICC-2270#B	For each day the ICC shall be capable of generating or updating, an
100 22,02	instrument activity list or an instrument activity deviation list (when an activity
	profile exists for the instrument) nominally covering the next 7 days.
ICC-2280#A	The ICC shall generate or update the instrument activity list, or when a baseline
100 2200111	activity
	profile exists, the instrument activity deviation list, based, at a minimum, on the
	following:
	a. PI/TL provided instrument deviation requests.
	b. LTSP and LTIP
	c. Preliminary resource schedule
	d. Current resource availability information
	e. Current predicted orbit data and related information
	f. Responses to contingency/emergency conditions
	g. Rejection notification from the EOC of the activities that cannot be
	accommodated in the detailed activity schedule
ICC-2280#B	The ICC shall generate or update the instrument activity list, or when a baseline
1CC-2200#B	activity
	profile exists, the instrument activity deviation list, based, at a minimum, on the
	following:
	a. PI/TL provided instrument deviation requests.
	b. LTSP and LTIP
<u> </u>	U. LISI and LIH

	c. Preliminary resource schedule
	d. Current resource availability information
	e. Current predicted orbit data and related information
	f. Responses to contingency/emergency conditions
	g. Rejection notification from the EOC of the activities that cannot be
	accommodated in the detailed activity schedule
ICC-2290#A	The ICC shall generate the instrument activity list or the instrument activity
	deviation list (when an activity profile exists for the instrument) in both machine-
	usable and human-readable forms, to describe for each activity, at a minimum, as
	many of the following that apply:
	a. Activity identifier including traceability to PI/TL provided deviation requests.
	b. Objectives
	c. Resource requirements
	d. Start time constraints and duration
	e. Instrument modes as a function of time
	f. Pointing angles and field of view (FOV)
	g. Specified tolerance limits
	h. Disturbances caused for each instrument mode
ICC-2290#B	The ICC shall generate the instrument activity list or the instrument activity
	deviation list (when an activity profile exists for the instrument) in both machine-
	usable and human-readable forms, to describe for each activity, at a minimum, as
	many of the following that apply:
	a. Activity identifier including traceability to PI/TL provided deviation requests.
	b. Objectives
	c. Resource requirements
	d. Start time constraints and duration
	e. Instrument modes as a function of time
	f. Pointing angles and field of view (FOV)
	g. Specified tolerance limits
	h. Disturbances caused for each instrument mode
ICC-2300#A	The ICC shall accept from the EOC a notification of rejection of instrument activities.
ICC-2300#B	The ICC shall accept from the EOC a notification of rejection of instrument
	activities.
ICC-2350#B	In support of a TOO observation or a late change, the ICC shall update the instrument
	activity list or the instrument activity deviation list (when an activity profile exists for
	the instrument) within 8 hours, if the corresponding observation or the late change
	affects existing instrument activities or creates new conflicts.
ICC-2370#B	In support of a TOO observation, the ICC shall update the instrument activity list or
	the instrument activity deviation list (when an activity profile exists for the instrument)
	within 30 minutes, if the corresponding observation or the late change does not affect
	existing instrument activities or create new conflicts.
ICC-2380#B	In support of a late change, the ICC shall be capable of updating the instrument
	activity list within 75 minutes, if the request for instrument support activity does not
	affect existing instrument activity list events or create new conflicts.
ICC-2390#A	The ICC shall provide the EOC with the instrument activity list or instrument
200 2000111	activity deviation list (when an activity profile exists for the instrument) and any
	details detailed het (when an activity profile exists for the instrument, and any

	updates thereto, when generated.
ICC-2390#B	The ICC shall provide the EOC with the instrument activity list or instrument activity deviation list (when an activity profile exists for the instrument) and any updates thereto, when generated.
ICC-2400#A	The ICC shall have the capability to update the instrument activity list or instrument activity deviation list (when an activity profile exists for the instrument) in response to instrument malfunctions or other special events that affect the continuation of the existing schedule.
ICC-2400#B	The ICC shall have the capability to update the instrument activity list or instrument activity deviation list (when an activity profile exists for the instrument) in response to instrument malfunctions or other special events that affect the continuation of the existing schedule.
ICC-3010#A	The ICC shall validate SCC-stored instrument tables, as appropriate, that are generated at the ICC.
ICC-3010#B	The ICC shall validate instrument loads, SCC-stored instrument commands, and/or SCC-stored instrument tables, as appropriate, that are generated at the ICC.
ICC-3020#B	The ICC shall accept the detailed activity schedule or its updates from the EOC.
ICC-3040#A	The ICC shall be capable of generating, at least once each day, instrument loads, SCC-stored instrument commands based on the detailed activity schedule.
ICC-3040#B	The ICC shall be capable of generating, at least once each day, instrument loads, SCC-stored instrument commands, and/or SCC-stored instrument tables based on the detailed activity schedule.
ICC-3050#B	The ICC shall be able to generate a command-to-memory location map for instrument-stored command loads.
ICC-3060#B	The ICC shall generate and validate, in less than 1 hour, the instrument loads, SCC-stored instrument commands, and/or SCC-stored instrument tables for 24 hours of operation of its instrument.
ICC-3070#B	In support of a TOO observation or late change, the ICC shall generate and validate the corresponding commands within 25 minutes of receiving an updated detailed activity schedule from the EOC, if the corresponding observation does not impact previously scheduled activities.
ICC-3071#B	In support of a TOO observation, the ICC shall be capable of generating and validating the corresponding commands within 55 minutes of receiving an updated detailed activity schedule from the EOC, if the corresponding observation impacts previously scheduled activities.
ICC-3085#B	In support of a late change, the ICC shall be capable of generating and validating the corresponding commands within 115 minutes of receiving an updated detailed activity schedule from the EOC, if the corresponding activity impacts previously scheduled activities.
ICC-3090#A	The ICC shall generate, validate, and store, as command groups, preplanned instrument commands for later use in emergency situations to protect the health and safety of its instrument.
ICC-3090#B	The ICC shall generate, validate, and store, as command groups, preplanned instrument commands for later use in emergency situations to protect the health and safety of its

	instrument.
ICC-3100#A	The ICC shall be able to generate, validate, and store preplanned contingency
	instrument commands to support specific TOO observations.
ICC-3100#B	The ICC shall be able to generate, validate, and store preplanned contingency
	instrument commands to support specific TOO observations.
ICC-3110#A	The ICC shall be able to generate, validate, and store preplanned contingency
	instrument commands to be used in event of instrument anomalies.
ICC-3110#B	The ICC shall be able to generate, validate, and store preplanned contingency
	instrument commands to be used in event of instrument anomalies.
ICC-3210#A	The ICC shall provide the EOC with instrument loads, SCC-stored instrument
	commands, SCC-stored instrument tables, preplanned real-time instrument
	commands, and associated information that includes, at a minimum, the following:
	a. Instrument identifier
	b. Schedule identifier, if applicable
	c. Critical command information
ICC-3210#B	The ICC shall provide the EOC with instrument loads, SCC-stored instrument
	commands, SCC-stored instrument tables, preplanned real-time instrument
	commands, and associated information that includes, at a minimum, the following:
	a. Instrument identifier
	b. Schedule identifier, if applicable
	c. Critical command information
ICC-3230#B	The ICC shall evaluate a command request from the IST against the current detailed
	activity schedule to determine whether it can be met with the corresponding commands
	without impacting previously scheduled activities.
ICC-3262#C	In support of a TOO observation or a late change, the ICC shall transfer the
	corresponding command request to the EOC within 5 minutes of generation and
	validation of the commands.
ICC-3270#A	The ICC shall be able to generate and validate emergency/contingency instrument
	command groups in emergency/contingency situations.
ICC-3270#B	The ICC shall be able to generate and validate emergency/contingency instrument
TGG 2200#G	command groups in emergency/contingency situations.
ICC-3280#C	The ICC shall have the capability to provide the EOC with instrument command
100 2200 110	groups, within 1 minute of a predefined emergency/contingency situation.
ICC-3300#C	The ICC shall be capable of retrieving validated and stored instrument command
ICC 2260#C	groups and initiating transfer to the EOC, within 1 second of operator initiation.
ICC-3360#C	The ICC shall provide an instrument command group with a single emergency
ICC 2270#D	instrument command to the EOC within 200 milliseconds of operator initiation.
ICC-3370#B	The ICC shall provide the capability to verify the successful receipt and execution of instrument commands.
ICC-3430#C	
100-3430#0	The ICC shall accept from the EOC command notification messages when
ICC 4020#A	emergency/contingency instrument commands are issued by the EOC. The ICC shall provide the combility to accent CCSDS polyets from EDOS.
ICC-4020#A	The ICC shall provide the capability to accept CCSDS packets from EDOS
	containing at a minimum the following data types:
	a. Spacecraft and instrument housekeeping data
	b. Instrument engineering data or instrument science data within which instrument

	engineering data is embedded
	c. Instrument memory dump data
ICC 4020#D	
ICC-4020#B	The ICC shall provide the capability to accept CCSDS packets from EDOS
	containing at a minimum the following data types:
	a. Spacecraft and instrument housekeeping data
	b. Instrument engineering data or instrument science data within which instrument
	engineering data is embedded
	c. Instrument memory dump data
ICC-4045#A	The ICC shall provide the capability to extract instrument housekeeping data and
	relevant spacecraft parameters from the spacecraft and instrument housekeeping data
	stream.
ICC-4045#B	The ICC shall provide the capability to extract instrument housekeeping data and
	relevant spacecraft parameters from the spacecraft and instrument housekeeping data
	stream.
ICC-4050#B	The ICC shall be capable of extracting instrument engineering data from instrument
10001111	science data.
ICC-4060#B	The ICC shall support all EOS telemetry formats for instrument engineering data.
ICC-4070#B	The ICC shall provide the capability to receive and report data quality information with
ICC-4070#B	
ICC 4000#A	the incoming CCSDS packets as provided by EDOS.
ICC-4090#A	The ICC shall provide the capability to detect and report gaps in the telemetry data it
100 1000 UD	receives.
ICC-4090#B	The ICC shall provide the capability to detect and report gaps in the telemetry data it
	receives.
ICC-4095#B	The ICC shall provide the capability to receive and process, non-telemetry data,
	which includes at a minimum the following:
	a. Monitor blocks from the DSN, GN, and WOTS
	b. Status messages from EDOS
ICC-4100#A	The ICC shall have the capability to perform instrument housekeeping and
	engineering data processing, which include:
	a. Decommutation
	b. Engineering unit conversion
	c. Limit checking, flagging out-of-limit parameters
ICC-4100#B	The ICC shall have the capability to perform instrument housekeeping and
	engineering data processing, which include:
	a. Decommutation
	b. Engineering unit conversion
	c. Limit checking, flagging out-of-limit parameters
ICC-4110#B	The ICC shall support the definition of sets of multiple sets of boundary limits for each
ICC-4110#D	
	non-discrete parameter, with each set including definitions for one or more upper and
TOO 4120 UP	lower boundaries.
ICC-4120#B	The ICC shall provide the capability to accept temporary or permanent changes to limit
	definitions.
ICC-4130#B	The ICC shall have the capability to continuously process instrument housekeeping and
	engineering data in real time as it is being received.
ICC-4150#A	The ICC shall have the capability to provide event messages whenever a

	predetermined number of limit violations for a parameter is detected.
ICC-4150#B	The ICC shall have the capability to provide event messages whenever a
ICC-4130πD	predetermined number of limit violations for a parameter is detected.
ICC-4160#C	The ICC shall have the capability to process spacecraft recorder instrument
1CC-4100#C	housekeeping and engineering data to determine instrument health and safety.
ICC-4170#B	The ICC shall provide the capability to determine the best estimate for instrument
1СС-41/0#В	memory contents.
ICC-4410#A	The ICC shall provide the capability to perform analysis on real-time data, spacecraft recorder data, and data from the ICC history log.
ICC-4410#B	The ICC shall provide the capability to perform analysis on real-time data, spacecraft recorder data, and data from the ICC history log.
ICC-4420#A	The ICC shall receive spacecraft status data from the EOC.
ICC-4420#B	The ICC shall receive spacecraft status data from the EOC.
ICC-4440#B	The ICC shall provide the capability to determine, for specified parameters over a
ICC-4440πD	specified time interval, at a minimum the following:
	a. Minimum value
	b. Maximum value
	c. Mean value
	d. Standard deviation of the parameter
	e. Time and duration of limit violations
ICC-4450#A	The ICC shall provide the capability to plot specified parameters against other
100 1100111	specified parameters or against time.
ICC-4450#B	The ICC shall provide the capability to plot specified parameters against other
	specified parameters or against time.
ICC-4460#A	The ICC shall provide the capability to time-correlate related instrument parameters.
ICC-4460#B	The ICC shall provide the capability to time-correlate related instrument parameters.
ICC-4470#A	The ICC shall provide the capability to define, check, and manage instrument-specific
	operations procedures.
ICC-4470#B	The ICC shall provide the capability to define, check, and manage instrument-specific
	operations procedures.
ICC-4480#B	The ICC shall have the capability to monitor and evaluate instrument environmental
	parameters.
ICC-4490#A	The ICC shall provide the capability for trend analysis of instrument parameters.
ICC-4490#B	The ICC shall provide the capability for trend analysis of instrument parameters.
ICC-4510#B	
ICC-4520#C	
	detection of anomalies.
ICC-4540#B	
ICC-4545#B	
1	a. Scheduled instrument operational mode
ICC-4500#B ICC-4510#B ICC-4520#C ICC-4540#B	The ICC shall provide the capability to generate instrument performance data based on the processing of instrument housekeeping data and instrument engineering data. The ICC shall have the capability to generate instrument status data based on instrument performance data and instrument anomaly data. The ICC shall provide instrument status data to the EOC, periodically or upon

	b. Trend analysis
	c. Instrument-specific telemetry information in the IDB
ICC-4550#B	The ICC shall have the capability to compare and display selected instrument telemetry
1CC- 4 330# D	parameter values with the expected values based on, at a minimum the following:
	a. Scheduled instrument operational mode
	=
	b. Trend analysis
ICC 45 COUA	c. Instrument-specific telemetry information in the IDB
ICC-4560#A	The ICC shall maintain a record of the instrument configuration, including the state of instrument subsystems.
ICC-4560#B	The ICC shall maintain a record of the instrument configuration, including the state of instrument subsystems.
ICC-4570#B	The ICC shall provide the capability to maintain a master ground image of the
ТСС-4370#В	instrument memory.
ICC-4580#B	The ICC shall provide the capability to compare the master ground image and the
	instrument memory dump.
ICC-4590#B	The ICC shall provide the capability to detect, isolate, and resolve instrument failures
	and anomalies.
ICC-4600#B	The ICC shall accept from the IST at a minimum the following:
	a. Instrument anomaly notifications and instructions
	b. PI/TL analysis results
	c. Calibration information
ICC-4710#A	The ICC Instrument Data Base (IDB) shall include at a minimum the following:
100 1710/11	a. Instrument housekeeping data formats
	b. Instrument engineering data formats
	c. Housekeeping and engineering parameter descriptions
	d. Command descriptions
	e. Syntactical rules for commands and operator directives
	f. Operator directives
	g. Display formats
	h. Planning and scheduling definitions and constraints
	i. Analysis algorithms
	j. Report formats
	k. Derived telemetry parameter equations 1. Parameter limits
	m. Instrument characteristics
7.00 1 - 10.00	n. Command validation parameters
ICC-4710#B	The ICC Instrument Data Base (IDB) shall include at a minimum the following:
	a. Instrument housekeeping data formats
	b. Instrument engineering data formats
	c. Housekeeping and engineering parameter descriptions
	d. Command descriptions
	e. Syntactical rules for commands and operator directives
	f. Operator directives
	g. Display formats
	h. Planning and scheduling definitions and constraints

	T
	i. Analysis algorithms
	j. Report formats
	k. Derived telemetry parameter equations
	1. Parameter limits
	m. Instrument characteristics
	n. Command validation parameters
ICC-4720#B	The ICC shall maintain the latest two versions of the IDB.
ICC-4730#A	The ICC shall have the capability to modify records in the IDB.
ICC-4730#B	The ICC shall have the capability to modify records in the IDB.
ICC-4740#A	The ICC shall provide syntax and structure checking of the IDB.
ICC-4740#B	The ICC shall provide syntax and structure checking of the IDB.
ICC-4760#A	The ICC shall generate a report identifying any problems with the contents of the IDB.
ICC-4760#B	The ICC shall generate a report identifying any problems with the contents of the IDB.
ICC-4775#A	The ICC shall provide the EOC with the instrument-specific portion of the PDB
	and/or updates thereto.
ICC-4775#B	The ICC shall provide the EOC with the instrument-specific portion of the PDB
	and/or updates thereto.
ICC-4780#A	The ICC shall maintain a history log of instrument and ICC activities for at least 7
	days, including at a minimum the following:
	a. All messages sent and received
	b. Engineering and housekeeping data
	c. Operator requests/directives and responses
	d. Commands
	e. Microprocessor loads and dumps
	f. Limits violations
	g. Error conditions
	h. Instrument status data
	i. Executed schedules
	j. Analysis results
	k. Instrument calibration parameters
	Spacecraft status information
	m. ICC reconfiguration information
ICC-4780#B	The ICC shall maintain a history log of instrument and ICC activities for at least 7
133 17332	days, including at a minimum the following:
	a. All messages sent and received
	b. Engineering and housekeeping data
	c. Operator requests/directives and responses
	d. Commands
	e. Microprocessor loads and dumps
	f. Limits violations
	g. Error conditions
	h. Instrument status data
	i. Executed schedules
	j. Analysis results
	k. Instrument calibration parameters
	In moderness canonation parameters

	1. Spacecraft status information
	m. ICC reconfiguration information
ICC-4790#A	The ICC shall be capable of extracting data sets from the history log by specifying time
ICC-4/90#A	and data type.
ICC-4790#B	The ICC shall be capable of extracting data sets from the history log by specifying time
1CC-477011 D	and data type.
ICC-6005#A	The ICC shall have the capability to schedule its systems and communications
100 00031111	interfaces that are used for its instrument operations and for other activities including
	maintenance, upgrade, sustaining engineering, testing, and training.
ICC-6005#B	The ICC shall have the capability to schedule its systems and communications
100 0005#B	interfaces that are used for its instrument operations and for other activities including
	maintenance, upgrade, sustaining engineering, testing, and training.
ICC-6010#B	The ICC shall participate in the scheduling of interface and end-to-end tests with the
	external elements involved including the EOC, the SMC for other EOS elements, and
	EDOS for MO&DSD data delivery systems.
ICC-6020#A	The ICC shall establish its configuration, including functional connectivity within the
	ICC and between the ICC and external interfaces, for its instrument operations, tests,
	and maintenance.
ICC-6020#B	The ICC shall establish its configuration, including functional connectivity within the
	ICC and between the ICC and external interfaces, for its instrument operations, tests,
	and maintenance.
ICC-6030#B	The ICC shall perform prepass operational readiness tests on the ICC and between the
	ICC and external interfaces (via test messages).
ICC-6040#A	The ICC shall support ongoing operations.
ICC-6040#B	The ICC shall support reconfiguration to work around ICC faults and anomalies
	without interrupting other ongoing operations.
ICC-6060#A	The ICC shall allow operator override for ICC reconfiguration requests that violate
	operational constraints.
ICC-6060#B	The ICC shall allow operator override for ICC reconfiguration requests that violate
	operational constraints.
ICC-6070#A	The ICC shall manage initialization and shutdown of ICC functions.
ICC-6070#B	The ICC shall manage initialization and shutdown of ICC functions.
ICC-6090#B	The ICC shall alert the operator when its status changes or when data errors exceed
	operator-specified levels.
ICC-6110#B	The ICC shall manage its faults, including at a minimum the following:
	a. Fault identification
	b. Identification of recommended solutions
ICC (120UD	c. Log of fault activities through resolution
ICC-6130#B	The ICC shall be capable of initiating diagnostics to aid in isolating internal faults,
ICC (125#D	using safeguards to prevent their operations from affecting other operations.
ICC-6135#B	The ICC shall participate in the resolution of failures and anomalies involving the
ICC (140#P	interfaces of the ICC.
ICC-6140#B	The ICC shall provide tests for validating, verifying, and checking functional
	capabilities and performance for ICC functions after the ICC has been repaired or
	upgraded.

ICC-6150#B	The ICC shall provide the capability to support the instrument integration test activities associated with the instrument testing, spacecraft and instrument integration testing, and launch site testing.
ICC-6510#A	The ICC shall provide the capability for the operator to control the ICC functions and components, utilizing a combination of input devices.
ICC-6510#B	The ICC shall provide the capability for the operator to control the ICC functions and components, utilizing a combination of input devices.
ICC-6520#A	The ICC shall provide the capability for the operator to send to displays, printers, and files spacecraft, instrument, and ground system information used or generated by each ICC function.
ICC-6520#B	The ICC shall provide the capability for the operator to send to displays, printers, and files spacecraft, instrument, and ground system information used or generated by each ICC function.
ICC-6525#A	The ICC shall provide the capability to notify the operator of events and alarms.
ICC-6525#B	The ICC shall provide the capability to notify the operator of events and alarms.
ICC-6540#A	The ICC shall support the use of a high-level interactive control language, which consists of a set of directives and programming-like language capabilities, including at a minimum the following:
	a. Evaluate algebraic and logical expressions
	b. Exercise decision logic (IF statements)
	c. Automated execution of a set of multiple directives (i.e., user interface language
	procedure)
	d. Internally branch to other parts of the user interface language procedure
	e. Nest user interface language procedures within procedures
	f. Initiate other ICC applications
ICC-6540#B	The ICC shall support the use of a high-level interactive control language, which consists of a set of directives and programming-like language capabilities, including at a minimum the following:
	a. Evaluate algebraic and logical expressions
	b. Exercise decision logic (IF statements)
	c. Automated execution of a set of multiple directives (i.e., user interface language procedure)
	d. Internally branch to other parts of the user interface language procedure
	e. Nest user interface language procedures within procedures
	f. Initiate other ICC applications
ICC-6580#A	The ICC shall provide the operator with the capability to create, modify, and delete
	user interface language procedures.
ICC-6580#B	The ICC shall provide the operator with the capability to create, modify, and delete
	user interface language procedures.
ICC-6600#A	The ICC shall respond to user inputs within 0.5 seconds.
ICC-6600#B	The ICC shall respond to user inputs within 0.5 seconds.
ICC-7060#A	The IST shall have the capability to accept data from the Science Computing Facility
	(SCF), which include at a minimum the following data:
	a. Microprocessor memory loads
ICC-7070#A	The IST shall have the capability to provide data to the SCF, which include at a

	minimum the following data:
	a. Instrument analysis results
ICC-8010#B	The ICC shall be capable of supporting the following simultaneous activities:
	a. Performing mission coordination, planning, scheduling, monitoring, and
	commanding of its instruments.
	b. At least two of the following: mission test activities, ICC system upgrades, training,
	and/or maintenance.
ICC-8020#B	The ICC computer hardware shall be able to grow without redesign to twice the
	processing, storage, and communications capacities estimated for full system operation.
ICC-8050#B	When the ICC encounters a conflict while building or updating an instrument resource
	profile (or instrument resource deviation list), and the ICC does not have sufficient
	information to resolve the conflict, the ICC shall forward a request for its resolution to
	the PI/TL at the IST.